

Remarks

Claims 5 and 6 are cancelled and claims 7 and 8 are amended.

Claim 9 is added. Accordingly, claims 7 to 9 are pending in this application all of which are in independent form.

Claim 8 is deemed to contain allowable subject matter.

Accordingly, claim 8 is amended herein to incorporate therein the features and limitations of claim 5 from which claim 8 had depended so that this claim should now be in condition for allowance.

Claim 9 is added to provide an additional independent definition of the invention incorporating the features and limitations of claim 8 so that this claim too should be allowable.

Claim 7 was rejected under 35 USC 103(a) as being unpatentable over Maurer et al in view of Bald and Anderl et al.

Claim 7 is amended herein to incorporate all the features and limitations of claims 5 and 6 and the following will show that claim 7, as amended, patentably distinguishes the invention over the combination of the three references applied thereagainst.

In the action, column 9, lines 48 to 51, of Bald are quoted where it is states:

"The configuration according to FIG. 1 does not show all the components which otherwise belong to the complete adjusting device and which those skilled in the art can readily imagine."

Applicant submits that this is not a sufficient teaching to send our person of ordinary skill to seek out Anderl et al and to plug its contents into a combination of Maurer et al and Bald.

Certainly, there is no suggestion in Anderl et al which would

enable our person of ordinary skill to hit upon the feature and limitation of:

"said primary control unit having an input for receiving a control signal indicative of parameters for a specific force vector diagram and functioning to determine the direction of rotation, speed of rotation and phase position of each of said first and second rotating eccentrics based on said parameters." (emphasis added)

A passage of a general nature, namely, column 1, lines 14 to 19, of Anderl et al is interpreted to be equivalent to the above-quoted feature of the applicant's invention. However, there is no mention here of a specific force vector diagram and none is suggested in the action. It is not seen how our person of ordinary skill could possibly combine the three references and read the above feature and limitation of claim 7 out of a very general reference to a program controlled adaptation.

In view of the above, applicant submits that claim 7, as now amended, patentably distinguishes the invention over the combination of Maurer et al, Bald and Anderl et al and should be allowable.

Reconsideration of the application is respectfully requested.

Respectfully submitted,



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Version with Markings to show Changes made:In the Claims:

Please amend claims 7 and 8 as follows:

7. (Amended) ~~The arrangement of claim 5,~~ An arrangement for generating a mechanical vibration comprising:

a mass;

a plurality of vector force cells and first and second ones of said force cells being for generating first and second rotating force vectors to form a resultant force vector acting on said mass to impart mechanical vibration thereto;

said first force cell including a first rotating eccentric to generate said first rotating force vector; an electrically controlled first drive for rotating said first rotating eccentric; and, a first angle sensor for detecting the angular position of said first rotating eccentric relative to a reference direction and outputting a first signal indicative thereof;

said second force cell including a second rotating eccentric to generate said second rotating force vector; an electrically controlled second drive for rotating said second rotating eccentric; and, a second angle sensor for detecting the angular position of said second rotating eccentric relative to a reference direction and outputting a second signal indicative thereof;

said electrically controlled first drive being separate from said electrically controlled second drive;

said first force cell including a first control and

monitoring device connected to said first angle sensor for
25 receiving said first signal;

said second force cell includes a second control and
monitoring device connected to said second angle sensor for
receiving said second signal;

a primary control unit connected to said first and second
30 control and monitoring devices;

said primary control unit functioning to generate first and
second control signals for setting a rotational frequency,
direction of rotation and phase position for said first and
second force cells, respectively;

35 said first control and monitoring device receiving said
first control signal and functioning to calculate the direction
of rotation, speed of rotation and phase position of said first
rotating eccentric based on said first signal and to then
generate a first drive signal for said first drive to regulate
40 the direction of rotation, speed of rotation and phase position
thereof;

said second control and monitoring device receiving said
second control signal and functioning to calculate the direction
of rotation, speed of rotation and phase position of said second
45 rotating eccentric based on said second signal and to generate a
second drive signal for said second drive to regulate the
direction of rotation, speed of rotation and phase position
thereof; and,

50 said primary control unit having an input for receiving a
control signal indicative of parameters for a specific force
vector diagram and functioning to determine the direction of
rotation, speed of rotation and phase position of each of said

first and second rotating eccentrics based on said parameters.

8. (Amended) ~~The arrangement of claim 5, wherein An arrangement for generating a mechanical vibration comprising:~~

a mass;

a plurality of vector force cells and first and second ones

5 of said force cells being for generating first and second rotating force vectors to form a resultant force vector acting on said mass to impart mechanical vibration thereto;

said first force cell including a first rotating eccentric to generate said first rotating force vector; an electrically controlled first drive for rotating said first rotating eccentric; and, a first angle sensor for detecting the angular position of said first rotating eccentric relative to a reference direction and outputting a first signal indicative thereof;

said second force cell including a second rotating eccentric to generate said second rotating force vector; an electrically controlled second drive for rotating said second rotating eccentric; and, a second angle sensor for detecting the angular position of said second rotating eccentric relative to a reference direction and outputting a second signal indicative thereof;

said electrically controlled first drive being separate from said electrically controlled second drive; and,

20 said first and second rotating eccentrics are being rotatably journalled to conjointly define a common geometric axis of rotation and said first and second rotating eccentrics have a mass center whose axis of rotation corresponds to said axis of rotation and rotates in approximately the same geometric plane.